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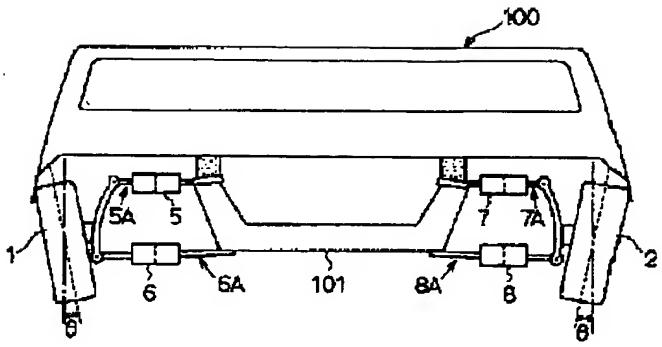
TITLE : CAMBER ANGLE CONTROL DEVICE FOR VEHICLE



ABSTRACT : PROBLEM TO BE SOLVED: To improve stability of the behavior of a vehicle body by comparing the detected value of the side slip angle of wheels with the critical side slip angle, and making variable the stroke of a lower arm or an upper arm according to the result so as to regulate the camber angle of the wheels.

SOLUTION: When the camber angle of front wheels 1, 2 and rear wheels are controlled, in an electronic control device, vehicle body speed, steering angle, acceleration of the vehicle body in the lateral direction, and yaw rate are computed from the detected signals and the like from respective sensors. Then vehicle body side slip angular speed is computed, and it is integrated so as to compute vehicle side slip angle. Next front wheel side slip angle and rear wheel side slip angle are computed, and the critical side slip angle and the front wheel side slip angle are comparatively computed so as to obtain the difference of the front wheel side slip angles. Similarly the difference of the rear wheel side slip angles is computed. Thereafter it is judged whether the front wheel side slip angle difference is smaller than a fixed value or not, and in the case of YES, a front camber angle is controlled into the negative camber angle direction. Meanwhile in the case of NO, when the rear wheel side slip angle difference is smaller than a fixed value, a rear camber angle is controlled into the negative direction.

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